



Related Pending Application
Related Case Serial No: <u>09/996,912</u>
Related Case Filing Date: <u>11-30-01</u>

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TECHNOLOGY CENTER R3700

What is claimed is:

1. An inspection device of a burner that is used for the synthesis of an optical fiber base material comprising of:

a burner platform for the burner used for the synthesis of the optical fiber base material;

a background illuminating portion for irradiating light from the rear side directed to the burner that was placed on the burner platform; and

an image receiving portion for receiving the image of the tip portion of the said burner which was formed by the light irradiated by the background illuminating portion.

2. An inspection device of a burner used for the synthesis of an optical fiber base material according to claim 1, wherein a plane mirror portion is arranged in an area opposite to the tip portion of the burner, wherein there is a clearance between the burner and the mirror;

the plane mirror portion is arranged slantly with respect to the axis that is parallel to the tube of burner 5(6) and reflects the image of the tip portion of the burner on the image receiving portion; and

the image receiving portion receives the image of the tip portion of the burner reflected by the said plane mirror.

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3. An inspection device of the burner used for the synthesis of an optical fiber base material according to claim 1, wherein the background illuminating portion radiates monochromatic light to the burner;

a camera is arranged in the image receiving portion;, and

this camera receives the image of the tip portion of the burner through a monochromatic filter.